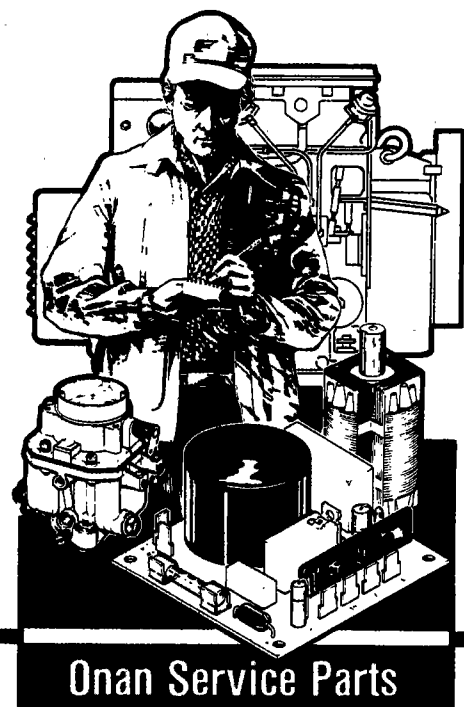

Onan

Parts Manual

SK GenSet

Mobile Electric Generating Set



Onan Service Parts

946-0223
8-87 (Spec A)
Printed in U.S.A.

General Information

For parts or service, contact the dealer from whom you purchased this equipment or refer to your Nearest Authorized Onan Parts and Service Center.

To avoid errors or delay in filling your parts order, always give the MODEL, SPEC NO. and SERIAL NO. from the Onan nameplate.

The image shows a rectangular form with rounded corners, designed to look like a nameplate. It features the Onan logo at the top left. Below the logo is a large rectangular box labeled "MODEL AND SPEC NO.". Below that is another rectangular box labeled "SERIAL NO.". The form has two circular punch holes at the top corners. The bottom right corner of the form is slightly irregular, suggesting it might be a template for a physical label.

Onan

MODEL AND SPEC NO.

SERIAL NO.

M-1149

For handy reference, insert "YOUR" nameplate information in the spaces above.

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Introduction

This manual applies to the standard SK Mobile Generator Sets as listed in the Generator Set Data Table. Parts are arranged in groups of related items and each illustrated part is identified by a reference number corresponding to the same reference number in the parts list. Parts illustrations are typical. Unless otherwise mentioned in the description, parts are interchangeable between models. Throughout this manual left and right sides are determined by facing the engine end (front) of the set.

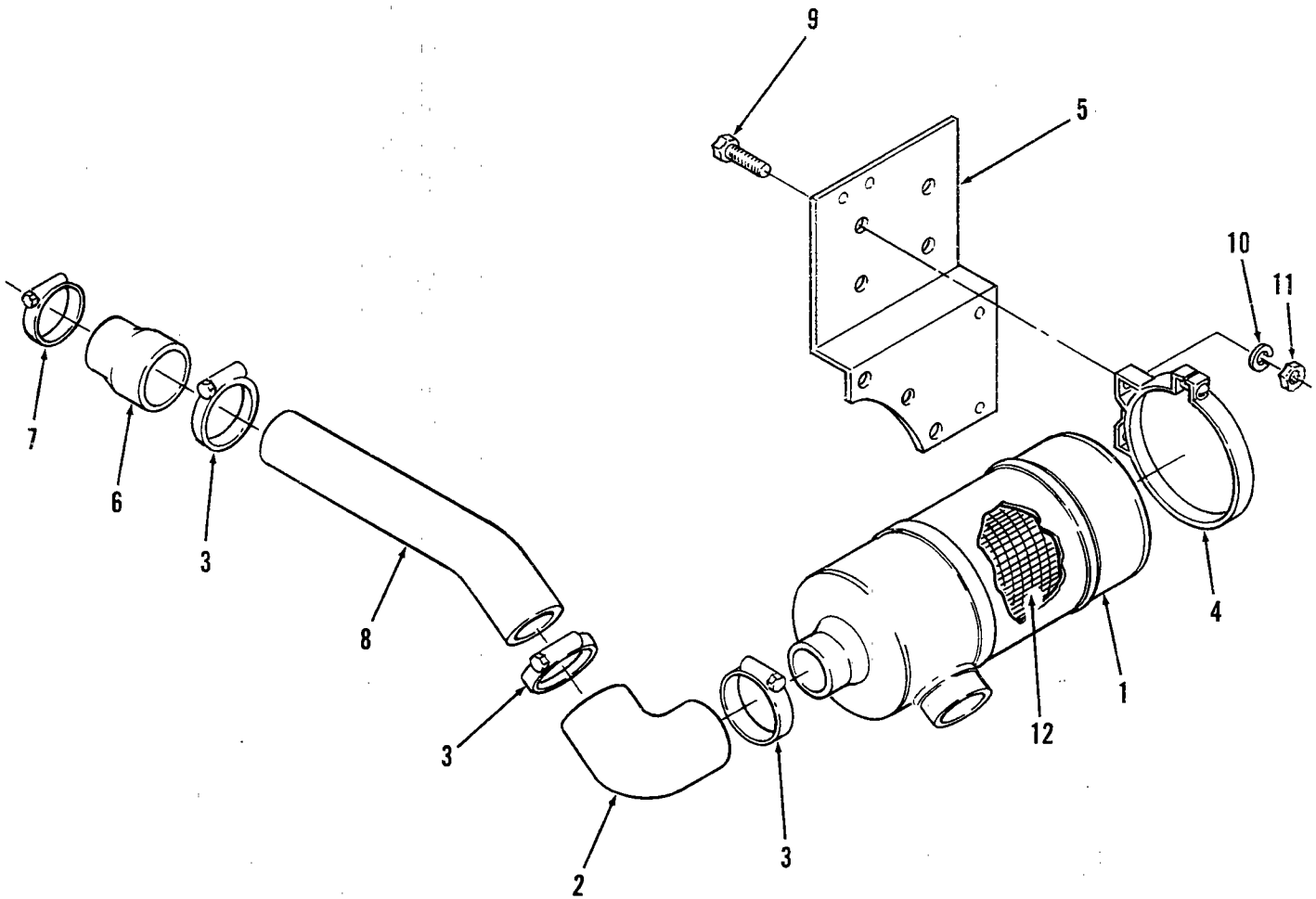
Engine parts that have been modified or added by Onan are identified in this manual. All other engine replacement parts must be ordered from the engine manufacturer by referring to the engine manufacturer's nameplate and supplying all available information. Contact your nearest engine parts dealer for assistance in ordering replacement parts.

Generator Set Data Table

MODEL AND SPECIFICATION	ELECTRICAL DATA				
	WATTS	VOLTS	HERTZ	WIRE	PHASE
30.0 SK-3R/*	30,000	120/240	60	4	1

- * - The diagonal line (/) in the model and specification number separates generator set characteristics from the specification number and letter. The specification number denotes customer requested options or deviations from a standard (1A, 1B, etc.) model. The specification letter advances (A to B, B to C, etc.) with major manufacturing changes.

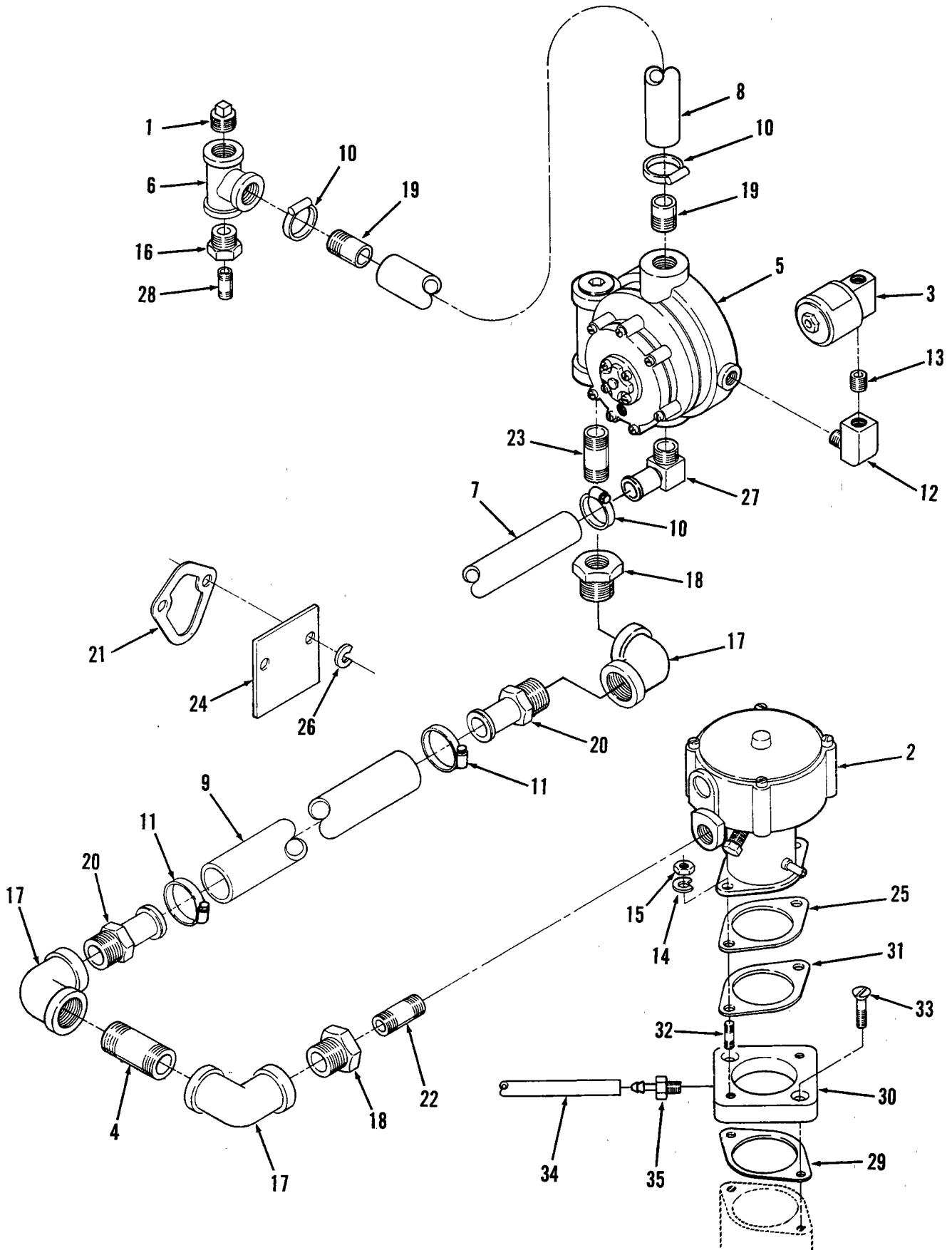
Air Cleaner



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-1869	1	Cleaner, Air
2	140-1775	1	Elbow, 90°
3	503-0354	3	Clamp
4	140-0078	2	Band, Mounting
5	140-2184	1	Bracket, Mounting
6	503-1068	1	Hose, Reducer
7	503-0465	1	Clamp

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	140-2189	1	Tube, Air Inlet
9	800-0048	4	Screw, Cap - Hex Head (3/8-16 x 3/4")
10	850-0050	4	Washer, Lock - Spring (3/8")
11	862-0003	4	Nut, Hex (3/8-16)
12	140-1204	1	Element

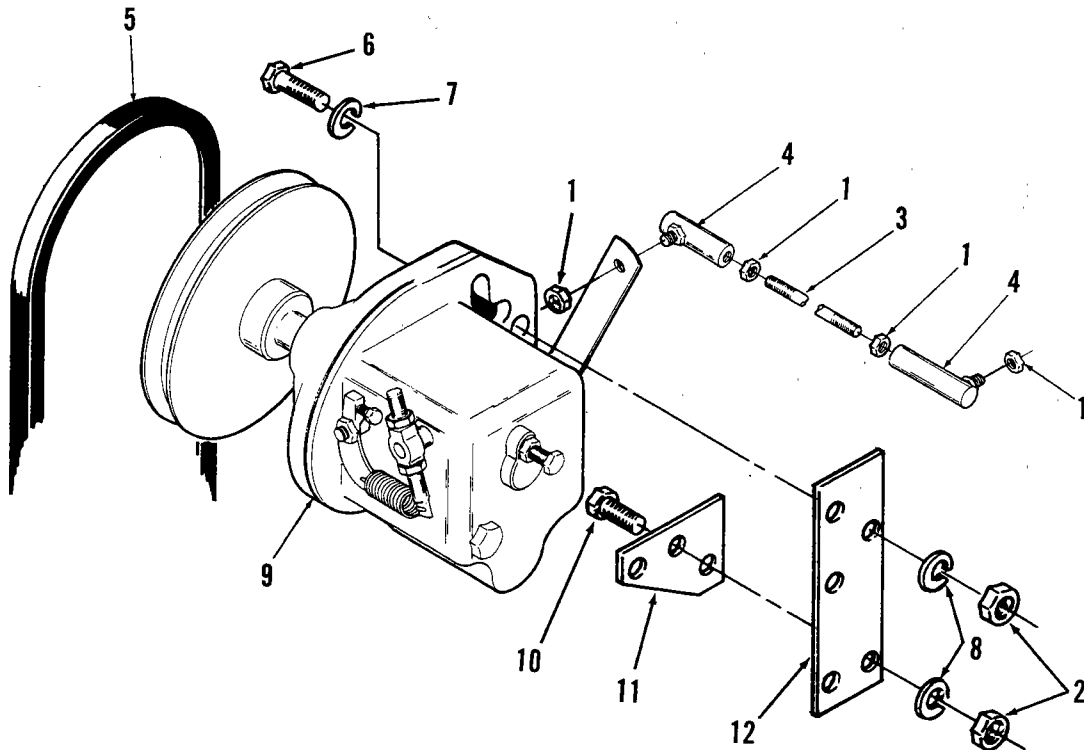
Fuel System



Fuel System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-0110	1	Plug, Pipe (3/8")	19	505-0135	2	Nipple, Half (3/8" x 1-1/2")
2	148-0902	1	Carburetor (LPG Vapor) (For Component Parts Refer to Carburetor Manufacturer)	20	502-0971	2	Connector, Hose (3/4")
3	307-0268	1	Valve, Solenoid (K1)	21	149-0736	1	Gasket - Fuel Pump Opening
4	505-0085	1	Nipple, Pipe (3/4" x 2")	22	505-0106	1	Nipple, Pipe (1/2" x 1-1/2")
5	148-0737	1	Regulator	23	505-0210	1	Nipple, Pipe (1/2" x 2")
6	505-0060	1	Tee, Pipe (3/8")	24	149-0638	1	Cover - Fuel Pump Opening
7	503-1562-02	1	Hose (5/8" ID x 43")	25	145-0120	1	Gasket - Lead (Carburetor to Adapter)
8	503-1562-01	1	Hose (5/8" ID x 23")	26	850-0045	2	Washer, Lock - Spring (5/16")
9	503-1564	1	Hose - LPG (1" ID x 16")	27	502-0587	1	Elbow - 90° (3/8" Pipe to 5/8" ID Hose)
10	503-0183	4	Clamp, Hose	28	505-0099	1	Nipple, Pipe (1/4" x 7/8")
11	503-0398	2	Clamp, Hose	29	148-0775	1	Gasket - Carburetor Adapter
12	502-0054	1	Elbow - 90° (1/4")	30	148-0800	1	Adapter, Carburetor
13	502-0047	1	Nipple, Close (1/4")	31	154-0133	1	Gasket - Carburetor to Adapter
14	850-0050	2	Washer, Lock - Spring (3/8")	32	520-0311	2	Stud
15	104-0091	2	Nut, Hex (3/8-24)	33	814-0198	2	Screw, Machine - Fillister Head (3/8-16 x 1")
16	505-0017	1	Bushing, Reducer (3/8" to 1/4")	34	503-0871	1	Hose, Breather (5/6" ID x 13-1/2")
17	505-0132	3	Elbow - 90° (3/4")	35	502-0582	1	Connector, Hose (1/8")
18	505-0021	2	Bushing, Reducer (3/4" to 1/2")				

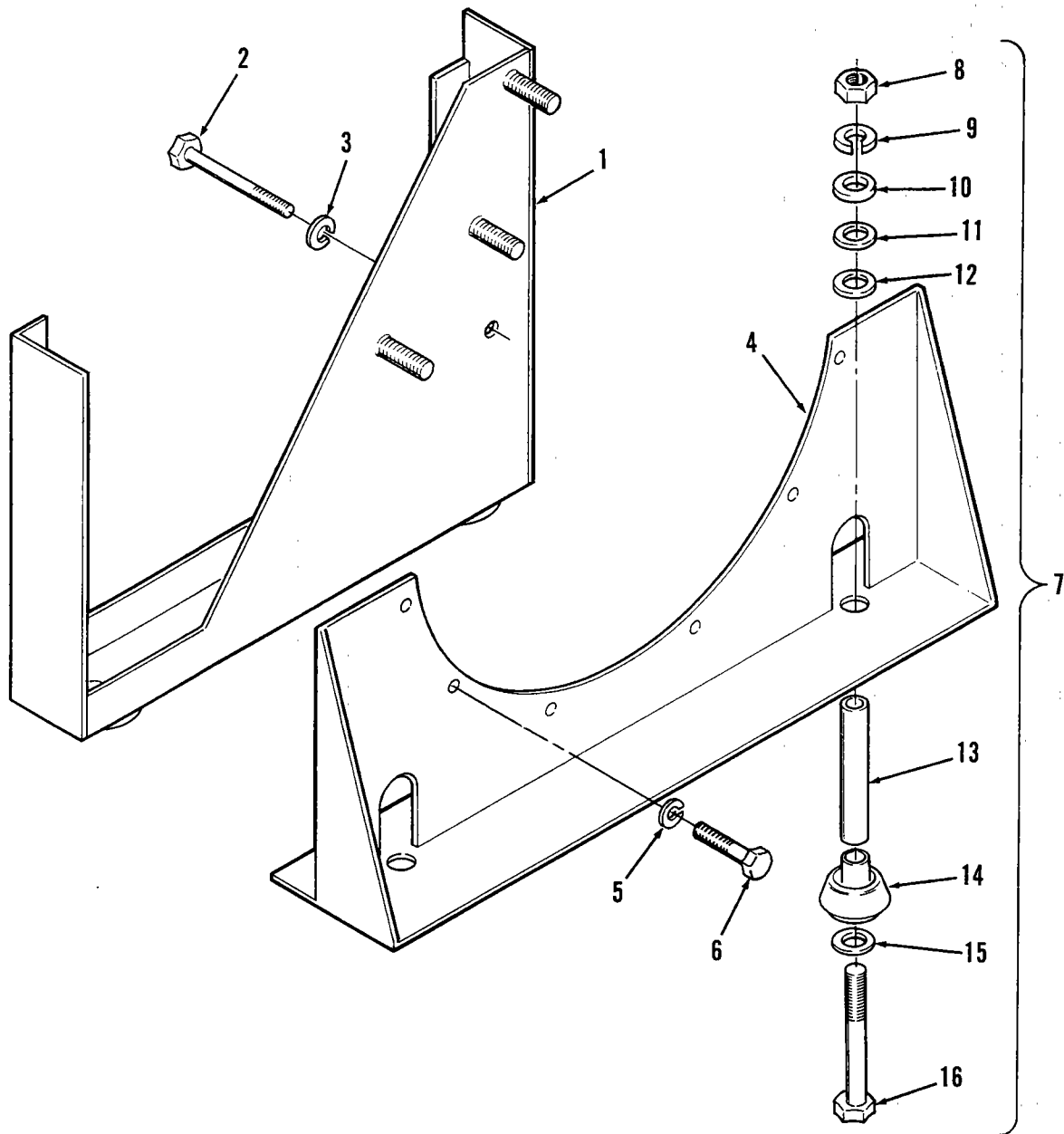
Governor



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	870-0217	4	Nut, Hex (1/4-28)
2	862-0003	4	Nut, Hex (3/8-16)
3	520-0969	1	Stud
4	150-0638	2	Joint, Ball
5	511-0066	1	Belt
6	800-0051	3	Screw, Cap - Hex Head (3/8-16 x 1-1/4")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	526-0013	3	Washer, Flat (3/8")
8	850-0050	4	Washer, Lock - Spring (3/8")
9	151-0440	1	Governor
10	800-0050	1	Screw, Cap - Hex Head (3/8-16 x 1")
11	150-2211	1	Spacer
12	150-2212	1	Bracket

Mounting Hardware

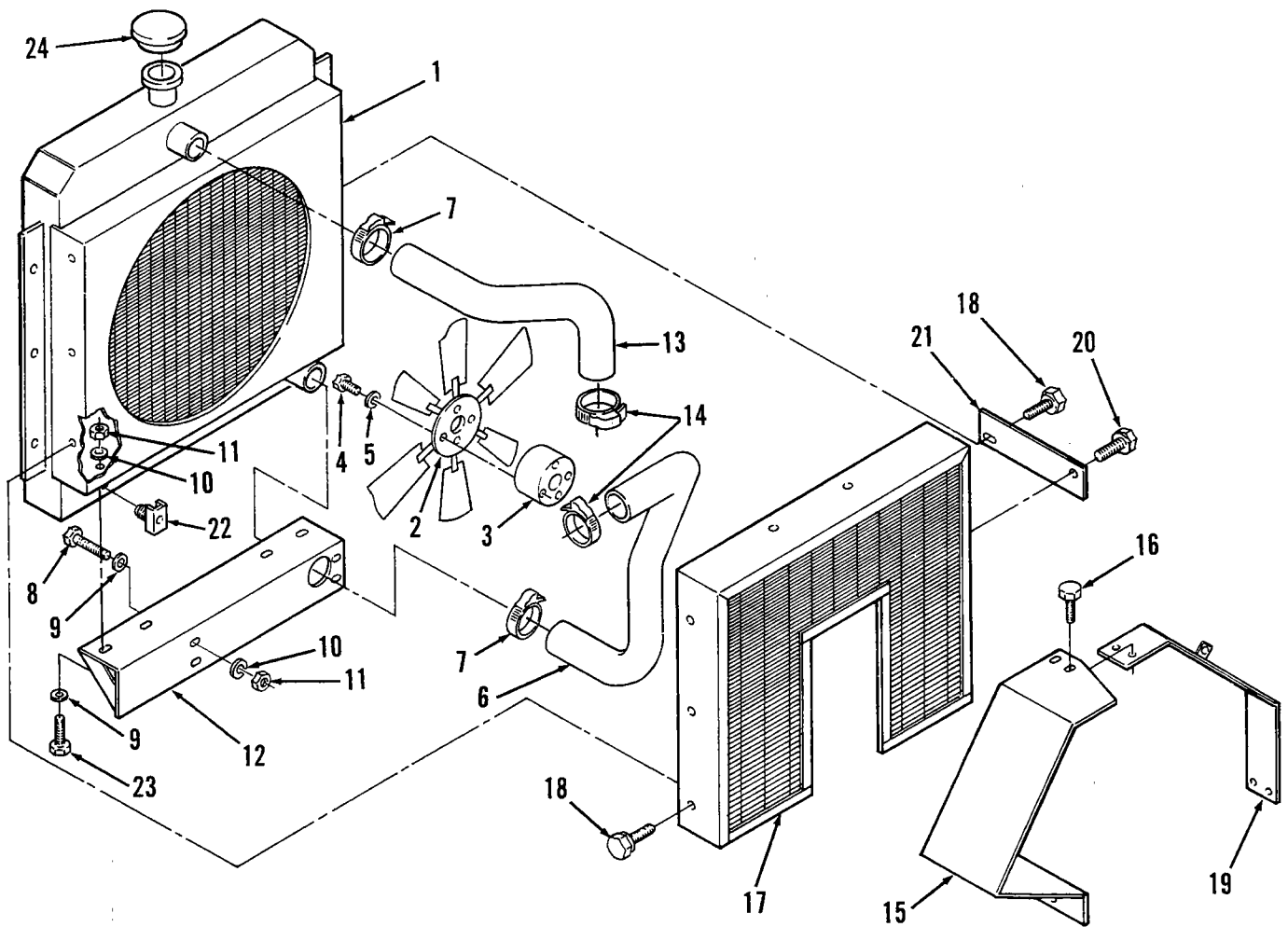


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-2614	1	Bracket, Mounting - Front
2	800-0034	3	Screw, Cap - Hex Head (5/16-18 x 2-1/4")
3	850-0045	3	Washer, Lock - Spring (5/16")
4	403-2670	1	Bracket, Mounting - Rear
5	850-2010	6	Washer, Lock - Spring (M10)
6	800-2088	6	Screw, Cap - Hex Head (M10 x 35mm)
7	402-0327	1	Kit, Mounting Hardware (Includes Parts Marked *)
8	862-0004	4	*Nut, Hex (7/16")
9	850-0055	4	*Washer, Lock - Spring (7/16")
10	526-0014	4	*Washer, Flat (29/64"ID x 1-1/2"OD x 1/8" Thick)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
11	526-0198	8	*Washer, Flat (5/8"ID x 1-1/2" OD x 1/16" Thick) (Use as Required)
12	402-0282	4	*Snubber
13	402-0290	4	*Bushing, Spacer
14	402-0283	2	Cushion, Vibration
	402-0288	2	Front
	402-0288	2	Rear
15	526-0195	4	*Washer, Flat (29/64"ID x 3"OD x 1/8" Thick)
16	800-0082	4	*Screw, Cap - Hex Head (7/16-14 x 3-3/4")

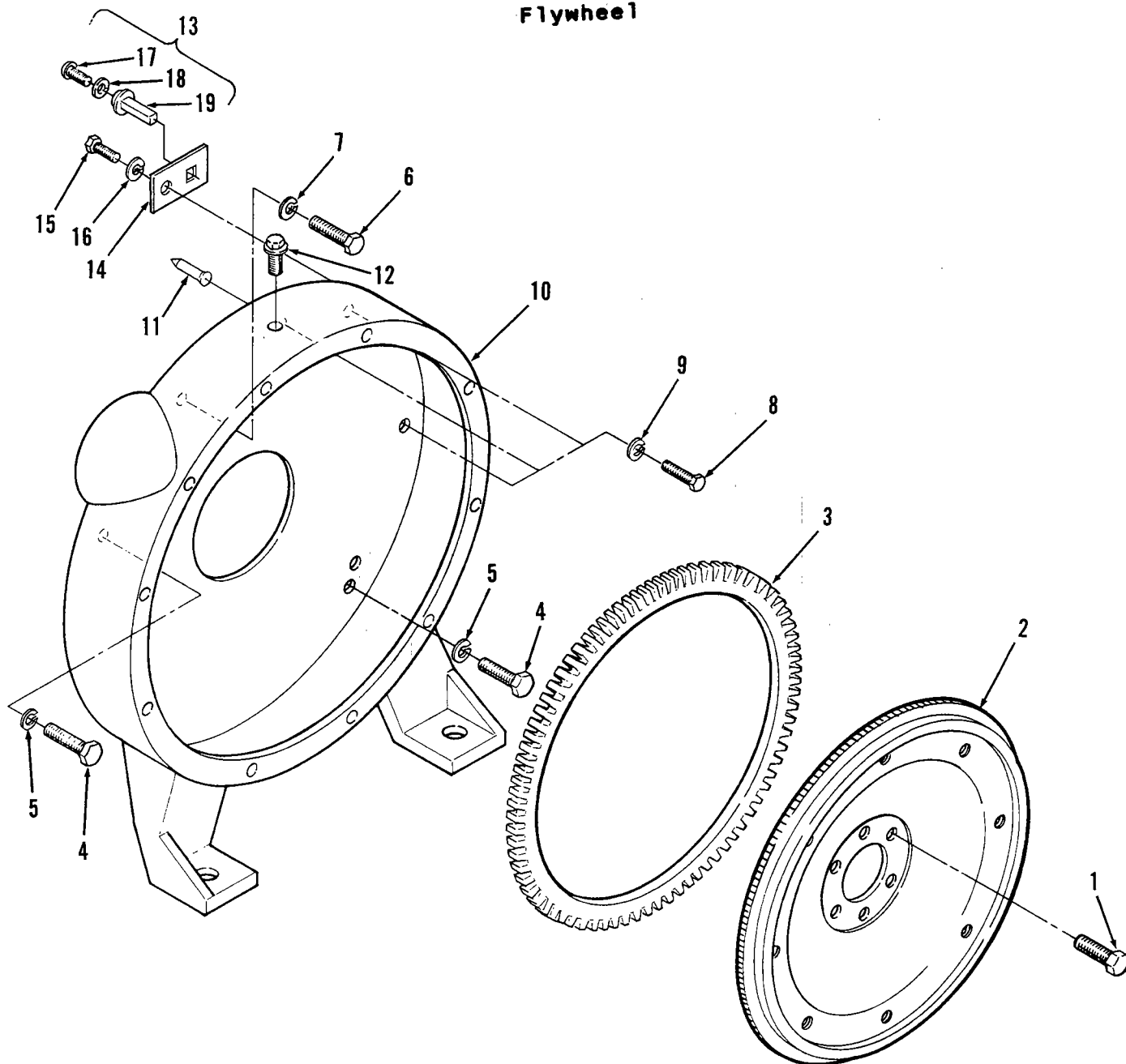
* - Parts included in 402-0327 Mounting Hardware Kit

Radiator



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3158	1	Radiator (Includes Pressure Cap)	14	503-0429	2	Clamp
2	130-1196	1	Fan	15	191-1833	1	Guard, Belt - Right Hand
3	130-3129	1	Spacer, Fan	16	821-0018	6	Screw, Locking - Hex Washer Head (1/4-20 x 5/8")
4	800-0038	4	Screw, Cap - Hex Head (5/16-18 x 3-1/4")	17	130-3136	1	Guard, Fan
5	850-0045	4	Washer, Lock - Spring (5/16")	18	821-0005	8	Screw, Locking - Hex Washer Head (#10-32 x 1/2")
6	503-1561	1	Hose, Radiator - Lower	19	191-1839	1	Guard, Belt - Left Hand
7	503-0311	2	Clamp	20	821-0028	1	Screw, Locking - Hex Washer Head (3/8-16 x 1/2")
8	800-0051	4	Screw, Cap - Hex Head (3/8-16 x 1-1/4")	21	130-3131	1	Bracket, Radiator
9	526-0026	8	Washer, Flat (3/8")	22	504-0028	1	Cock, Drain (3/8-18)
10	850-0050	8	Washer, Lock - Spring (3/8")	23	800-0050	4	Screw, Cap - Hex Head (3/8-16 x 1")
11	862-0003	8	Nut, Hex (3/8-16)	24	130-0449	1	Cap, Pressure
12	130-3157	1	Bracket, Radiator				
13	503-1560	1	Hose, Radiator - Upper				

Flywheel1

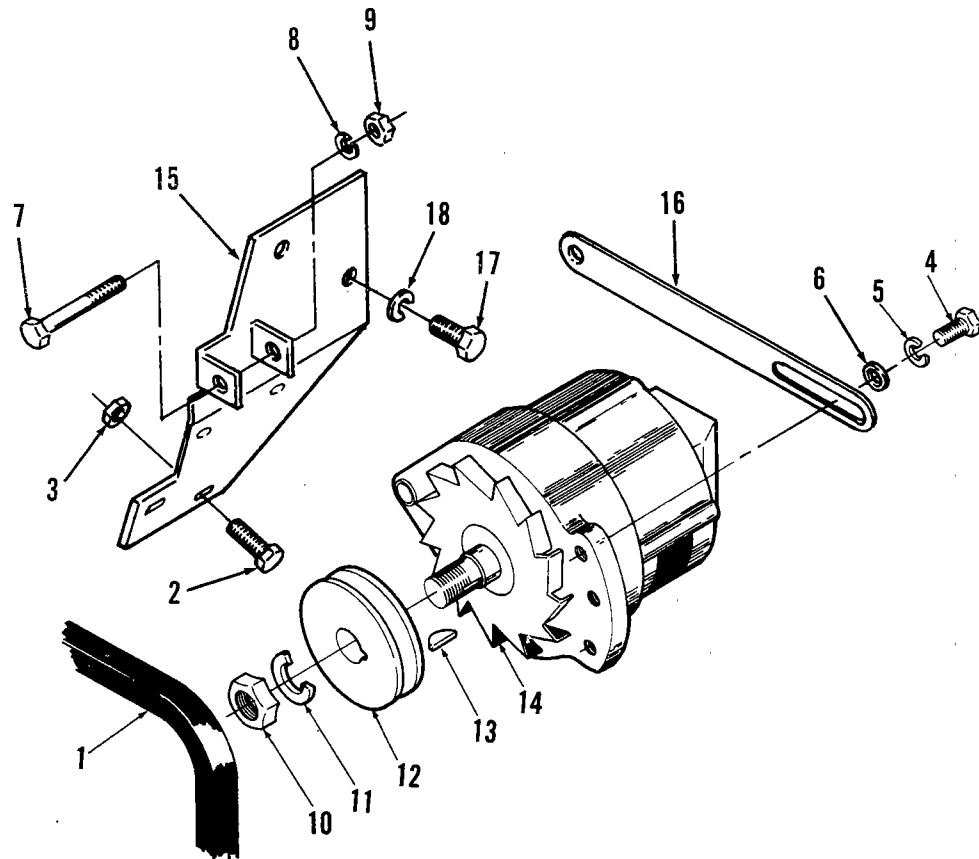


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	805-0027	6	Bolt, Place (7/16-20 x 7/8")
2	104-1600	1	Flywheel Assembly (Includes Ring Gear)
3	104-1185	1	Gear, Ring
4	800-0074	2	Screw, Cap - Hex Head (7/16-14 x 1-3/4")
5	850-0055	2	Washer, Lock - Spring (7/16")
6	800-0053	1	Screw, Cap - Hex Head (3/8-16 x 1-3/4")
7	850-0050	1	Washer, Lock - Spring (3/8")
8	800-0051	3	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
9	850-0050	3	Washer, Lock - Spring (3/8")
10	101-0769	1	Housing Assembly, Flywheel (Includes Indicator)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
11	160-1326	1	Indicator, Timing
12	517-0259	1	Plug, Cap
13	332-1292	1	Bracket Assembly, Terminal (#26) (Includes Parts Marked *)
14	332-1281	1	*Bracket, Terminal
15	800-0047	1	Screw, Cap - Hex Head (3/8-16 x 5/8")
16	850-0050	1	Washer, Lock - Spring (3/8")
17	809-0036	1	*Screw, Round Head - Sheet Metal (#8 x 7/8")
18	508-0015	1	*Washer, Fiber
19	870-0196	1	*Nut, Insulating

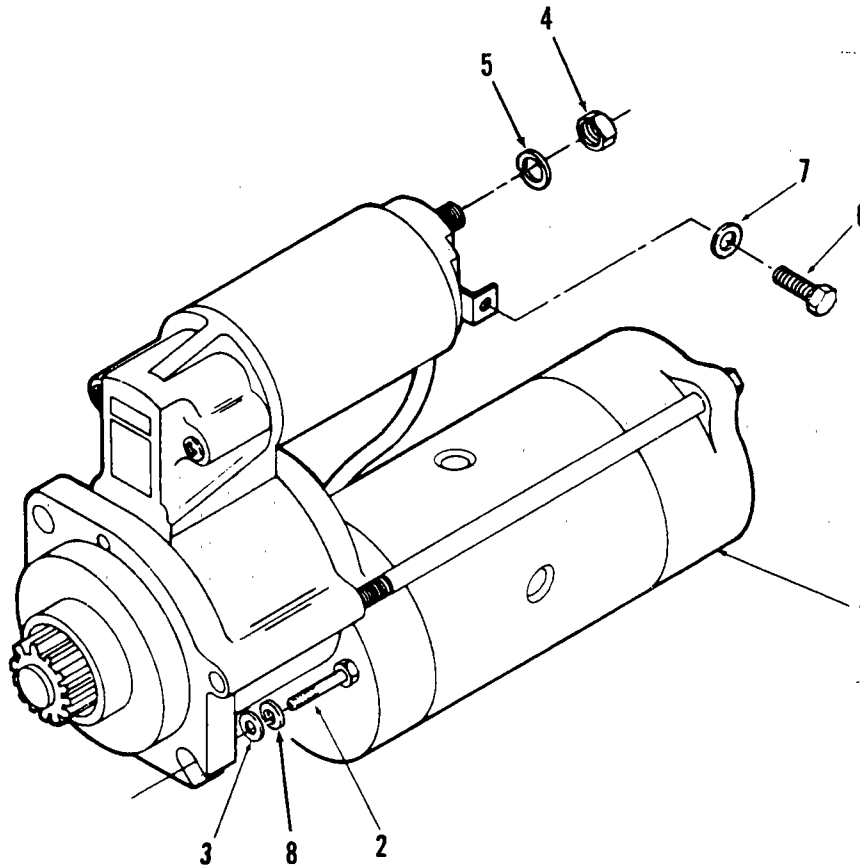
* - Parts Included in 332-1292 Terminal Bracket Assembly

Alternator



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	511-0076	1	Belt	9	862-0016	1	Nut, Hex (1/2-13)
2	821-0029	2	Screw, Self-Locking - Hex Washer Head (3/8-16 x 3/4")	10	868-0007	1	Nut, Hex (5/8-18)
3	870-0281	2	Nut, Hex - Self-Locking (3/8-16)	11	850-0070	1	Washer, Lock - Spring (5/8")
4	800-0028	1	Screw, Cap - Hex Head (5/16-18 x 1")	12	191-0623	1	Pulley
5	850-0045	1	Washer, Lock - Spring (5/16")	13	515-0093	1	Key
6	526-0013	1	Washer, Flat (5/16")	14	191-0665	1	Alternator (12 VDC)
7	800-0095	1	Screw, Cap - Hex Head (1/2-13 x 2-1/2")	15	191-1827	1	Bracket, Mounting
8	850-0060	1	Washer, Lock - Spring (1/2")	16	191-1834	1	Strap, Adjusting
				17	800-0071	2	Screw, Cap - Hex Head (7/16-14 x 1")
				18	850-0055	2	Washer, Lock - Spring (7/16")

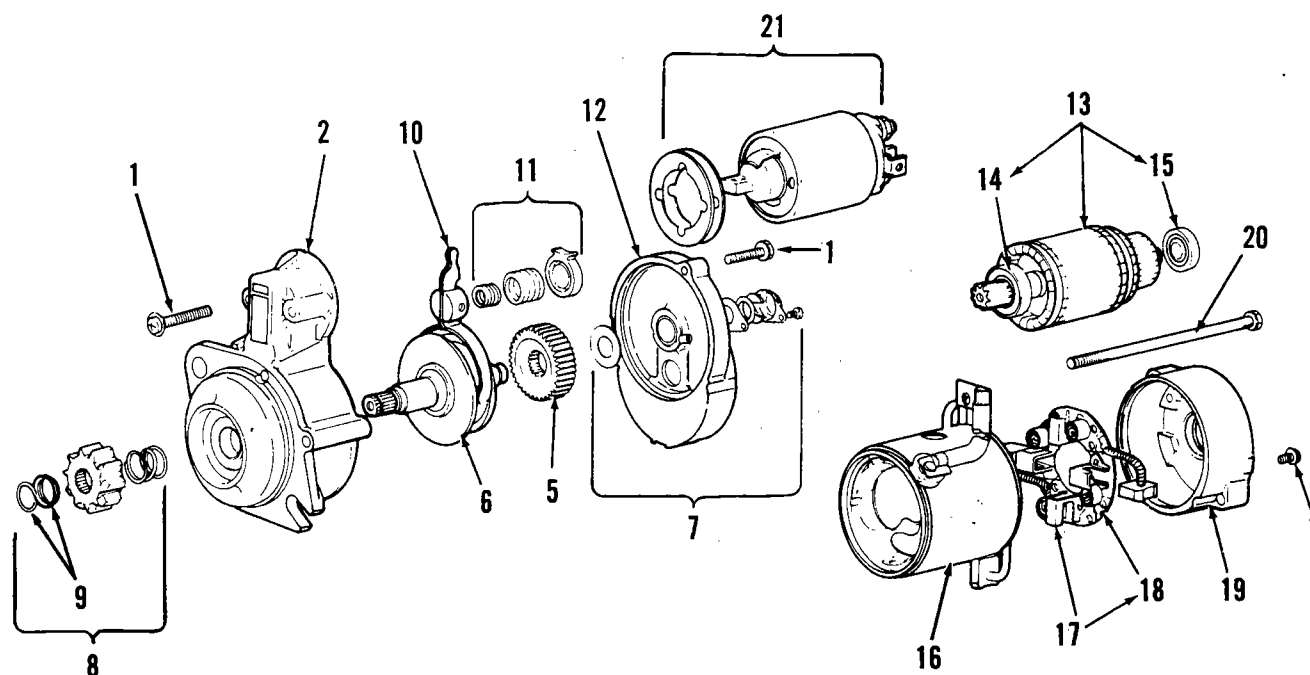
Starter



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191-1394	1	Starter - 12 VDC (Includes Switch Terminal Hardware) (See Separate Page for Components)
2	800-0072	2	Screw, Cap - Hex Head (7/16-14 x 1-1/4")
3	526-0032	2	Washer, Flat (7/16")
4	860-2008	1	Nut, Hex (M8) B+ Terminal

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	850-2008	1	Washer, Lock - Spring (M8) B+ Terminal
6	718-1002	1	Screw, Cap - Hex Head (M5 x 8mm) Solenoid Terminal
7	850-2005	1	Washer, Lock - Spring (M5) Solenoid Terminal
8	850-0055	2	Washer, Lock - Spring (7/16")

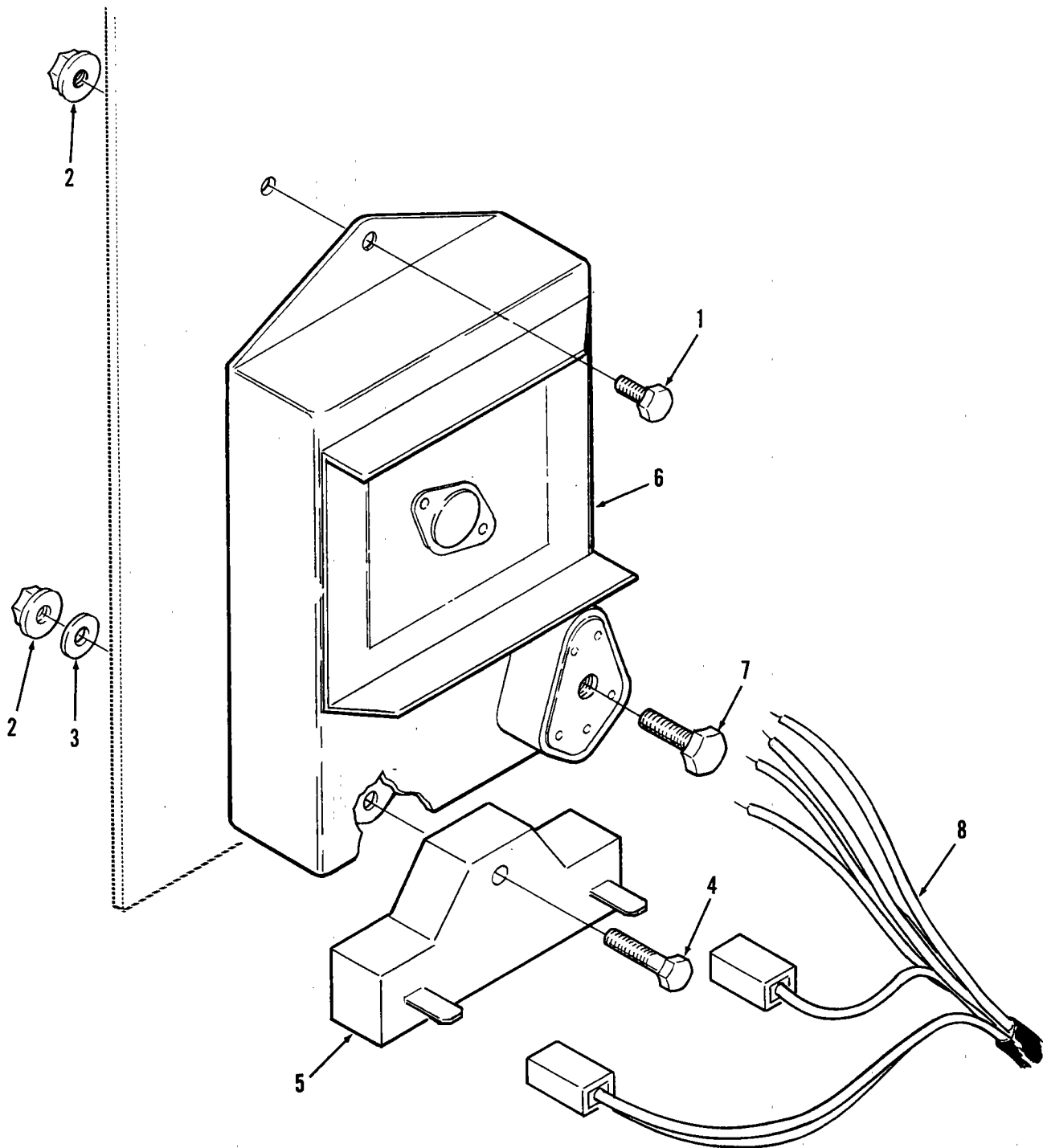
Starter Components



XES-1255

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	191-1394	1	Starter - 12 VDC (Complete)	12	191-1439	1	Bracket Assembly, Center
1	191-1450	1	Screw Set	13	191-1438	1	Armature Assembly (Includes Bearings)
2	191-1449	1	Bracket Assembly, Front (Includes Bearing)	14	191-1437	1	Bearing, Center
5	191-1446	1	Gear	15	191-1436	1	Bearing, Rear
6	191-1445	1	Clutch	16	191-1435	1	Yoke Assembly (Includes Pole Shoes, Field Coil and Positive Brushes)
7	191-1444	1	Cover Set (Includes Cover, Plate, Washers, Snap Ring, and Screws)	17	191-1434	1	Holder, Brush (Includes Negative Brushes)
8	191-1443	1	Pinion Set (Includes Pinion, Spring, and Stopper Set)	18	191-1433	4	Spring, Brush
9	191-1442	1	Stopper Set (Includes Stopper and Ring)	19	191-1432	1	Bracket, Rear
10	191-1441	1	Lever Assembly	20	191-1431	1	Bolt Set
11	191-1440	1	Spring Set	21	191-1430	1	Switch Assembly

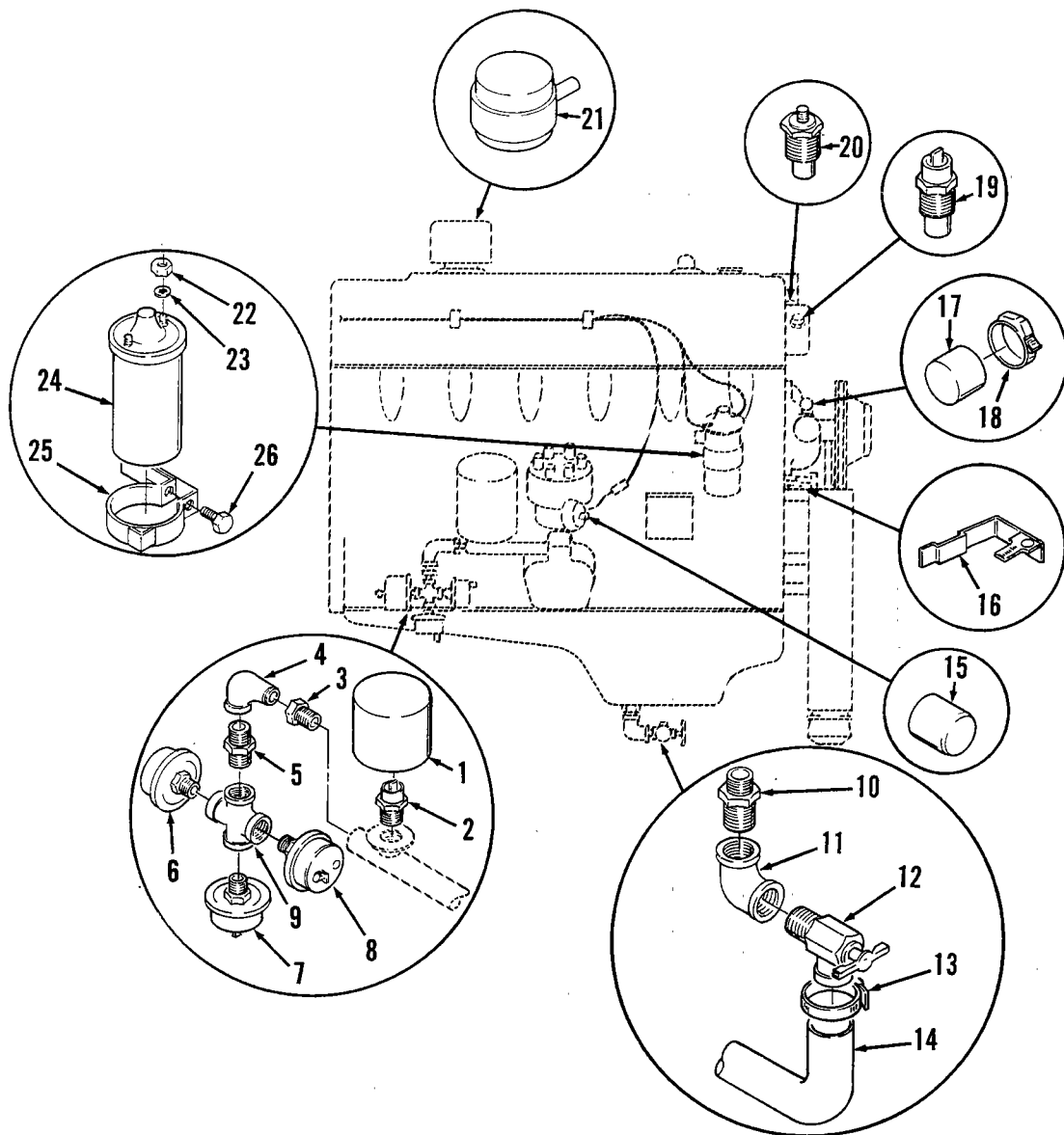
Electronic Ignition Control



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0010	1	Screw, Locking - Flange Hex Head (1/4-20 x 1/2")
2	870-0212	2	Nut, Locking - Flange Hex Head (1/4-20)
3	526-0015	1	Washer, Flat (1/4")
4	800-0008	1	Screw, Cap - Hex Head (1/4-20 x 1")

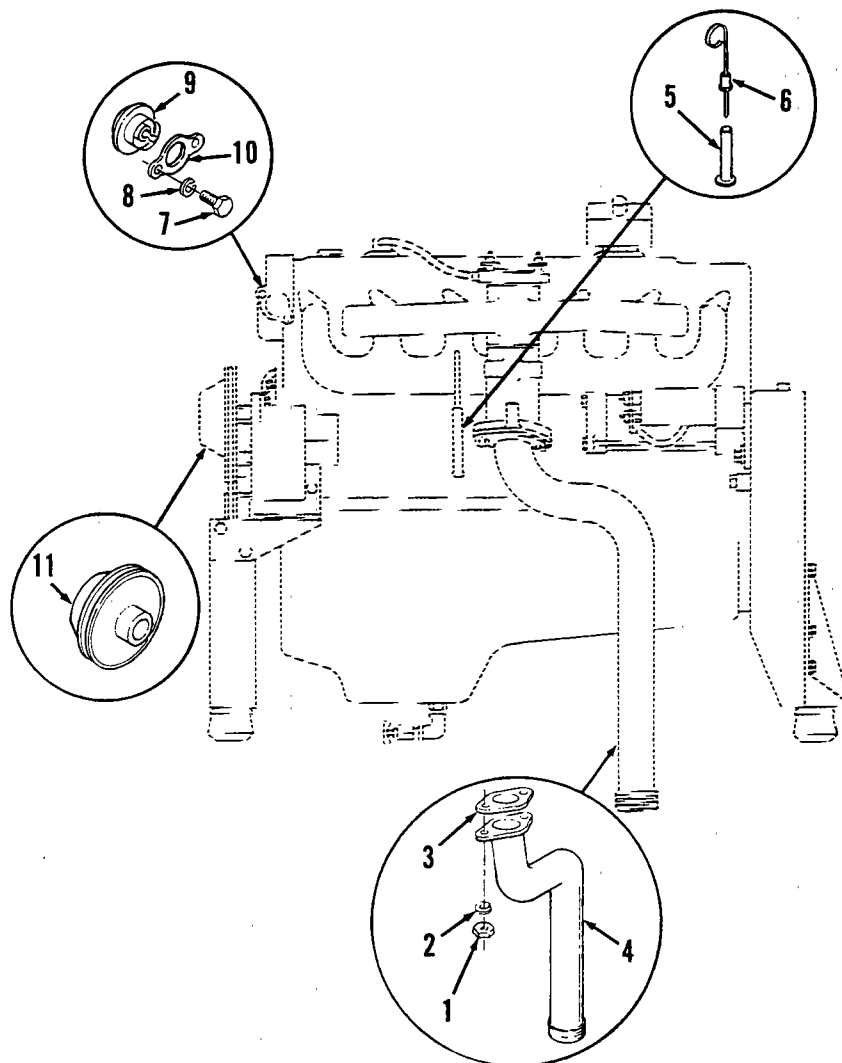
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	166-0716	1	Resistor, Ballast
6	166-0715	1	Control, Electronic Ignition (A13)
7	166-0757	1	Screw - Electronic Ignition Plug
8	166-0717	1	Harness, Wiring

Miscellaneous Engine Parts (Left Side)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	122-0488	1	Filter, Oil	12	504-0092	1	Valve, Shutoff
2	122-0487	1	Adapter, Oil Filter	13	503-0131	1	Clamp, Hose
3	505-0017	1	Bushing, Reducer (3/8" to 1/4")	14	503-0262	1	Hose, Oil Drain (21")
4	505-0011	1	Elbow, Street - 90° (1/4")	15	166-0719	1	Cap - Distributor Vacuum Connection
5	505-1371	1	Nipple, Hex (1/4" x 1/8")	16	160-1352	1	Bracket, Timing
6	193-0244	1	Sender, Oil Pressure (E1)	17	132-0222	1	Cap - Water Pump Hole
7	309-0272	1	Switch, Low Oil Pressure (Closes at 20 lbs. Descending) (S2)	18	132-0223	1	Clamp, Cap
8	309-0104	1	Switch, Low Oil Pressure (Closes at 5 lbs. Descending) (S2)	19	309-0437	1	Switch, Thermostat (S5)
9	505-0763	1	Crosspipe (1/8")	20	193-0318	1	Sender, Water Temperature (E2)
10	102-0652	1	Adapter, Oil Drain	21	123-1445	1	Breather, Oil
11	505-0039	1	Elbow, Pipe - 90° (3/8")	22	166-0759	2	Nut - Ignition Coil
				23	166-0758	2	Washer - IT - Ignition Coil
				24	166-0713	1	Coil, Ignition (T1)
				25	160-1045	1	Bracket, Ignition Coil
				26	166-0286	1	Screw, Ignition Coil Bracket

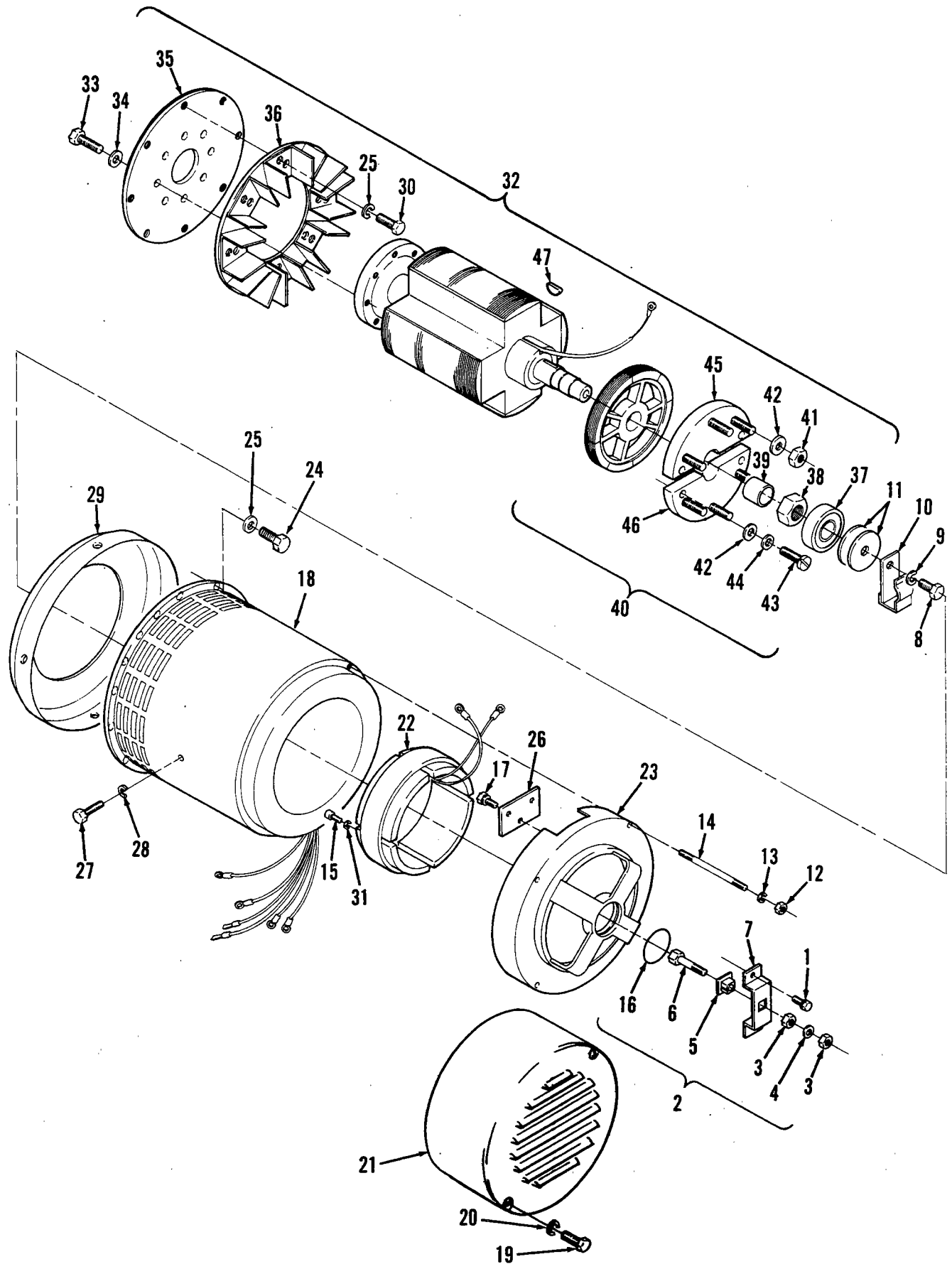
Miscellaneous Engine Parts (Right Side)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	862-0004	2	Nut, Hex (7/16-14)
2	850-0055	2	Washer, Lock - Spring (7/16")
3	155-1599	1	Gasket, Exhaust
4	154-2712	1	Tube, Exhaust
5	123-1477	1	Tube, Oil Level Indicator
6	123-1444	1	Indicator, Oil Level

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	800-0050	2	Screw, Cap - Hex Head (3/8-16 x 1")
8	850-0050	2	Washer, Lock - Spring (3/8")
9	309-0317	1	Thermostat
10	309-0318	1	Gasket, Thermostat
11	132-0176	1	Pulley, Water Pump

Generator



Generator

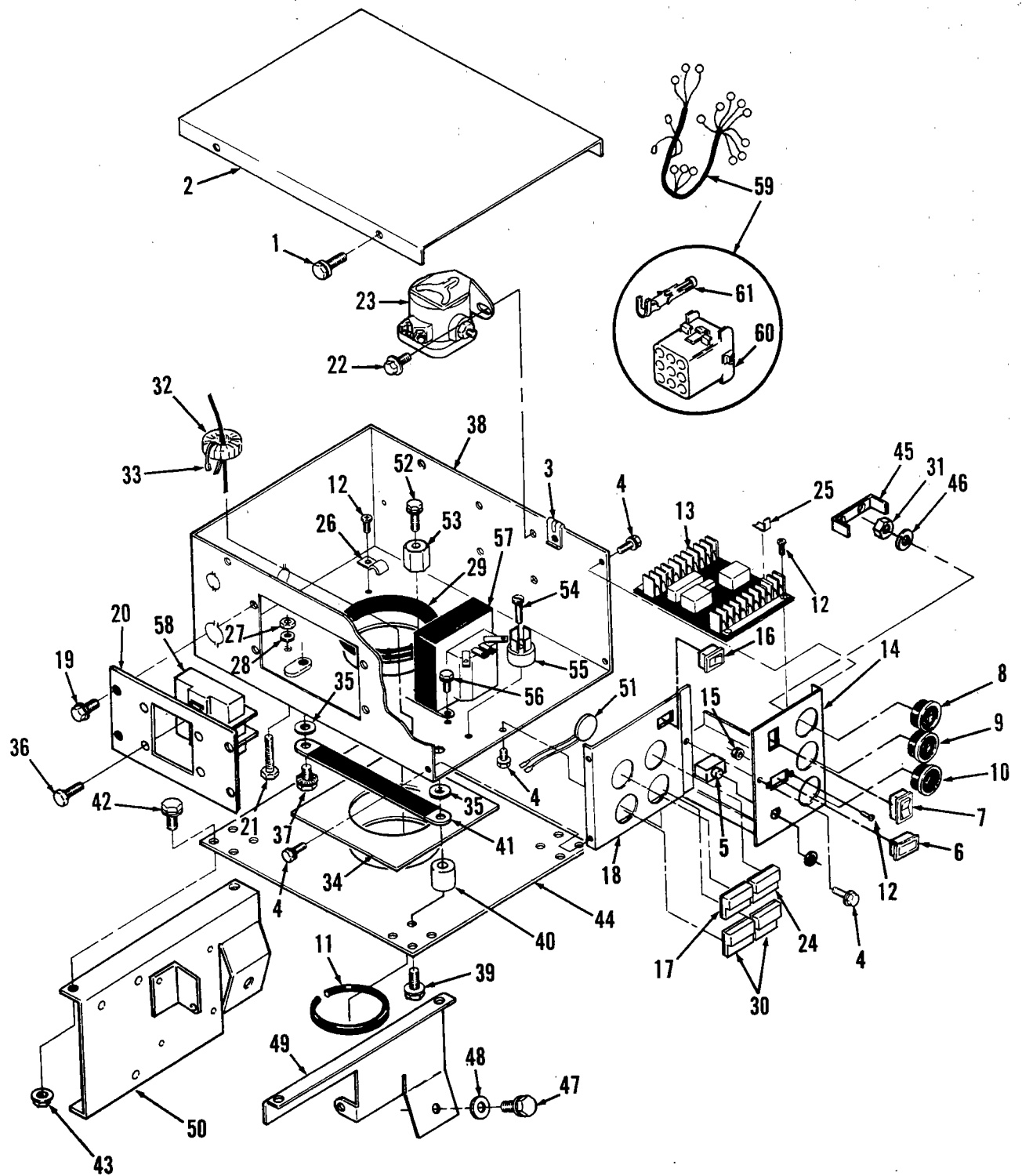
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0010	2	Screw, Self-Locking - Hex Washer Head (1/4-20 x 1/2")	28	850-2006	4	Washer, Lock - Spring (M6)
2	150-1446	1	Bracket and Point Assembly (Includes Parts Marked #)	29	232-2845	1	Baffle, Air
3	862-0001	2	#Nut, Hex (1/4-20)	30	800-2085	8	Screw, Cap - Hex Head (M10 x 20mm)
4	853-0013	1	#Washer, Lock - ET (1/4")	31	850-0040	4	Washer, Lock - Spring (1/4)
5	870-0250	1	#Nut, Insulating	32	201-3398-02	1	Rotor Assembly, Generator (Includes Parts Marked *)
6	150-0723	1	#Point, Contact	33	800-2112	8	*Screw, Cap - Hex Head (M12 x 30mm)
7	150-1445	1	#Bracket, Mounting	34	526-0249	8	*Washer, Flat - Hardened (15/32" ID x 1" OD x 1/8" Thk)
8	800-0051	1	Screw, Cap - Hex Head (3/8-16 x 1-1/4")	35	232-2843	1	*Disk, Drive
9	856-0010	1	Washer, Lock - EIT (3/8")	36	205-0132	1	*Fan, Generator
10	150-0717	1	Switch, Overspeed	37	510-0112	1	*Bearing, Ball
11	526-0077	2	Washer, Flat (3/8")	38	870-0284	1	*Nut, Self-Locking Hex (1-1/8-12)
12	862-0003	4	Nut, Hex (3/8-16)	39	232-2398	1	*Spacer, Bearing
13	850-0050	4	Washer, Lock - Spring (3/8")	40	201-2152	1	*Rotor Assembly, Exciter (Includes Parts Marked +)
14	520-0966	4	Stud (3/8-16 x 5.2")	41	870-0131	8	+Nut, Self-Locking - Hex With ET Lockwasher (#10-32)
15	802-0040	4	Screw, Cap - Socket Head (1/4-20 x 2")	42	526-0008	12	+Washer, Flat (#10)
16	509-0094	1	Seal, "O" Ring	43	813-0100	4	+Screw, Machine - Round Head (#10-32 x 1/2")
17	815-0194	2	Screw, Tapping - Hex Head With ET Lockwasher (#10-32 x 3/8")	44	853-0008	4	+Washer, Lock - ET (#10)
18	220-4167-01	1	Stator Assembly, Generator (Includes Air Baffle)	45	358-0069	1	+Rectifier Assembly - Positive
19	812-0167	2	Screw, Machine - Round Head (1/4-20 x 6")	46	358-0070	1	+Rectifier Assembly - Negative
20	850-0040	2	Washer, Lock - Spring (1/4")	47	515-0094	1	+Key - Exciter Stator
21	234-0498	1	Cover, End Bell				
22	220-2010	1	Stator, Exciter				
23	211-0349	1	Bell, End				
24	800-2087	12	Screw, Cap - Hex Head (M10 x 30mm)				
25	850-2010	20	Washer, Lock - Spring (M10)				
26	232-2418	1	Board, Terminal				
27	718-1019	4	Screw, Cap - Hex Head (M6 x 14mm)				

- Parts Included in 150-1446 Bracket and Point Assembly

* - Parts Included in 201-3398-02 Generator Rotor Assembly

+ - Parts Included in 201-2152 Exciter Rotor Assembly

Control



Control

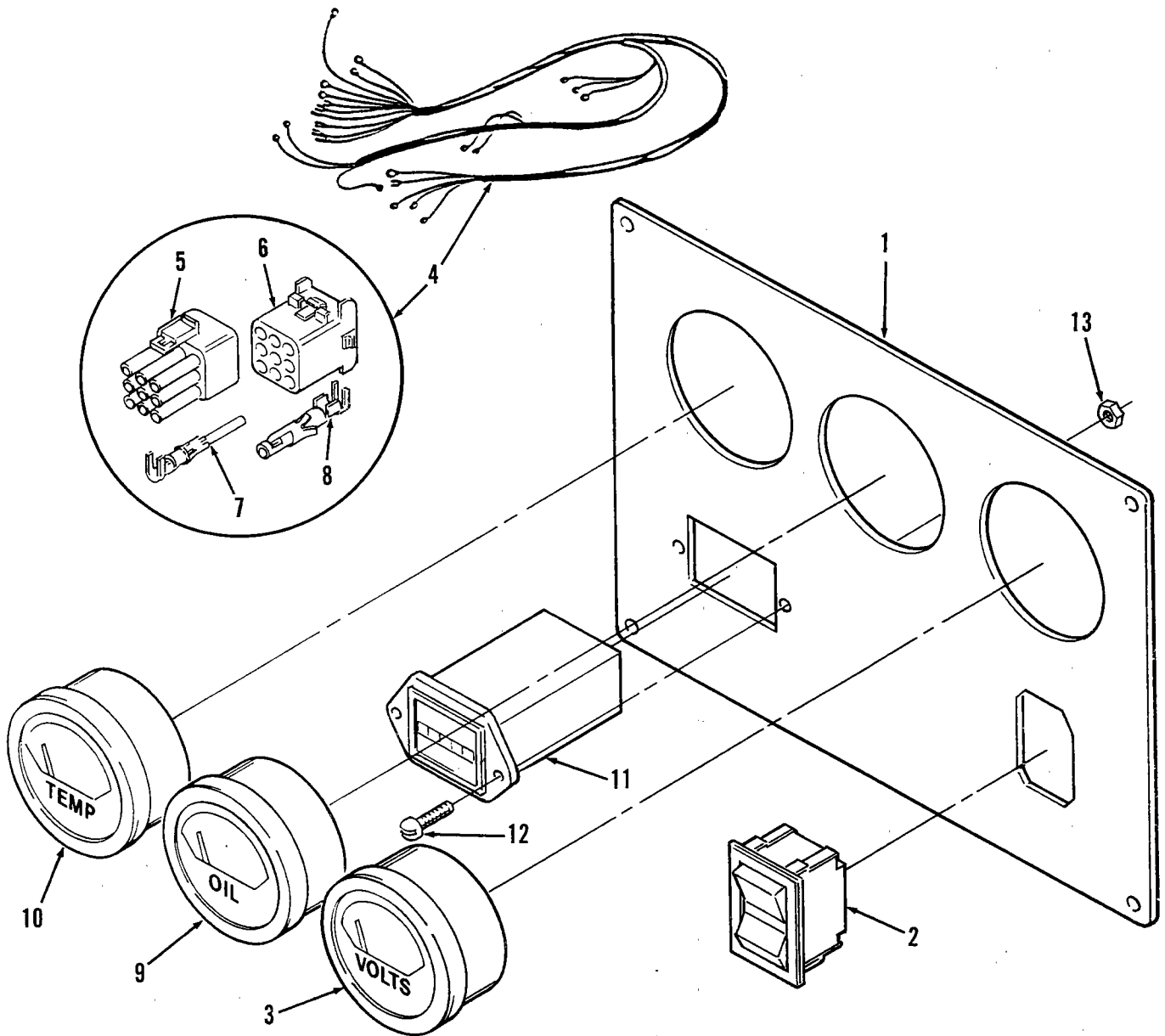
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0005	4	Screw, Self-Locking - Hex Washer Head (#10-32 x 1/2")	38	301-7807	1	Box, Control
2	301-7983	1	Cover, Control	39	821-0014	4	Screw, Locking Head - Flange (5/16-18 x 1/2")
3	870-0398	4	Nut, Retaining (#10-32)	40	402-0527	4	Dampener, Vibration
4	821-0004	5	Screw, Self-Locking - Hex Washer Head (#10-32 x 5/16")	41	337-0049	1	Strap, Ground - Control
5	320-1139	1	Breaker, Circuit (CB12)	42	821-0010	4	Screw, Self-Locking - Hex Washer Head (1/4-20 x 1/2")
6	302-0885	1	Meter, Time Totalizing (M11)	43	870-0212	4	Nut, Self-Locking - Hex Washer Head (1/4-20)
7	308-0739	1	Switch, Rocker (S11)	44	301-7685	1	Plate, Mounting - Control
8	193-0352	1	#Gauge, Oil Pressure (M12)	45	302-0270	3	#Clamp, Gauge Mounting
9	193-0351	1	#Gauge, Coolant Temperature (M13)	46	526-0049	9	#Washer, Flat (13/64" ID x 7/16" OD x 1/32" Thick)
10	302-1641	1	#Voltmeter - DC (M14)	47	815-0236	2	Screw, Tapping - Hex Head (5/16-18 x 5/8")
11	508-1043	1	Edging (19-1/2")	48	856-1008	2	Washer, Lock - EIT (5/16")
12	815-0544	7	Screw, Machine - Round Head, Cross Recessed, with IT Lockwasher (#6-32 x 1/2")	49	301-7699	1	Bracket, Mounting - Left Hand
13	300-2604	1	Monitor, Engine (A11)	50	301-9784	1	Bracket, Mounting - Right Hand
14			Face, Control - With Tray	51	305-0703	1	Suppressor, Voltage (RV21)
	319-0087	1	Generator Sets with Remote Mounted DC Gauges	52	821-0008	4	Screw, Self-Locking - Hex Washer Head (1/4-20 x 5/16")
	301-7686	1	# Generator Sets with Control Mounted DC Gauges	53	332-2370	2	Standoff, Insulator (TB1, TB2)
15	870-0183	2	Nut, Hex - With ET Lock Washer (#6-32)	54	815-0346	1	Screw, Machine - Round Head, Brass with ET Lockwasher (#10-32 x 5/8")
16	320-1140	1	Breaker, Circuit (CB11)	55	305-0696	1	Bridge, Rectifier (CR21)
17	302-1175	1	*Voltmeter - AC (M21)	56	821-0004	4	Screw, Self-Locking - Hex Washer Head (#10-32 x 5/16")
18			Face, Control	57	315-0649-01	1	Transformer, Voltage Regulating (T21)
	301-7951	1	Controls Without AC Meters	58	320-1553-02	1	Breaker, Circuit (CB22)
	301-9790	1	* Controls With AC Meters	59			150 Amp, 240 Volt AC Harness, Wiring
19	821-0004	4	Screw, Self-Locking - Hex Washer Head (#10-32 x 5/16")		338-2048-01	1	* Rectifier Bridge and AC Voltmeter to Exciter Field, Current Transformer, Frequency Meter and Insulator Standoffs
20	301-9723	1	Plate, Cover - Access				Rectifier Bridge to Exciter Field and Current Transformer Control Box
21	821-0012	2	Screw, Cap - Hex Washer Head (1/4-20 x 1-1/4") Ground Stud		338-1675-05	1	# Generator Sets with Control Mounted DC Gauges
22	821-0008	2	Screw, Cap - Hex Washer Head (1/4-20 x 5/16")		338-1675-07	1	Generator Sets with Remote Mounted DC Gauges
23	307-1166	1	Relay, Solenoid - Start (K11)		338-2184	1	Remote Control Connection (20") (Includes Parts Marked +)
24	302-1720	1	*Meter, Frequency - AC (M22)				Engine to Control
25	332-1564	2	Terminal, Tab	60	323-1325	1	+Cap, Connector (9 Place) (J1)
26	518-0437	1	Clip, Holddown	61	323-1200	7	+Socket, Female
27	871-0016	4	Nut, Hex - Brass (1/4-20) Ground Stud				
28	853-0013	2	Washer, Lock - ET (1/4") Ground Stud				
29	508-0115	1	Grommet - 2-1/2" Hole				
30	302-1468	2	*Ammeter - AC (M23, M24)				
31	871-0010	9	Nut, Hex - Brass (#10-32)				
32	302-0076	2	*Transformer, Current (CT21, CT22)				
33	332-0941	2	*Tie, Cable				
34	405-3156	2	Insulation				
35	856-0008	2	Washer, Lock - EIT (5/16")				
36	812-0063	4	Screw, Machine - Round Head (#6-32 x 1/2")				
37	821-0014	1	Screw, Locking Head - Flange (5/16-18 x 1/2")				

- Parts Used on Generator Sets with Control Mounted DC Gauges

* - Parts Used on Controls with AC Meters

+ - Parts Included in 338-2184 Wiring Harness

Remote Control Panel



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-3200	1	Panel Assembly, Remote Control - Complete (Includes Parts Marked +)
1	319-0071	1	+Panel, Control
2	308-0827	1	+Switch, Rocker (S11)
3	302-1641	1	+Voltmeter - DC (M14) Includes Mounting Hardware
4	338-2185	1	+ Remote Control Panel (Includes Parts Marked *)
	338-2221	1	Remote Control to Generator Set (25') (Includes Parts Marked #)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	323-1291	1	+*Plug, Connector (9 Place) (P1)
6	323-1325	1	+*Cap. Connector (9 Place) (J1)
7	323-1199	7	+*Pin, Male
8	323-1200	7	+*Socket, Female
9	193-0319	1	+Gauge, Coolant Temperature (M13) Includes Mounting Hardware
10	193-0320	1	+Gauge, Oil Pressure (M12) Includes Mounting Hardware
11	302-0885	1	+Meter, Time Totalizing (M11)
12	815-0385	2	+Screw, Machine - Round Head (#6-32 x 1/2")
13	870-0183	2	+Nut, Hex - With ET (#6-32)

+ - Parts Included in 300-3200 Remote Control Panel Assembly

* - Parts Included in 338-2185 Wiring Harness

- Parts Included in 338-2221 Wiring Harness

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130-3131	8	191-1439	12	302-1720	19	502-0054	5
130-3136	8	191-1440	12	305-0696	19	502-0582	5
130-3157	8	191-1441	12	305-0703	19	502-0587	5
130-3158	8	191-1442	12	307-0268	5	502-0971	5
132-0176	15	191-1443	12	307-1166	19	503-0131	14
132-0222	14	191-1444	12	308-0739	19	503-0183	5
132-0223	14	191-1445	12	308-0827	20	503-0262	14
145-0120	5	191-1446	12	309-0104	14	503-0311	8
148-0737	5	191-1449	12	309-0272	14	503-0398	5
148-0775	5	191-1450	12	309-0317	15	503-0429	8
148-0800	5	191-1827	10	309-0318	15	503-0871	5
148-0902	5	191-1833	8	309-0437	14	503-1560	8
149-0638	5	191-1834	10	315-0649-01	19	503-1561	8
149-0736	5	191-1839	8	319-0071	20	503-1562-01	5
150-0638	6	193-0244	14	319-0087	19	503-1562-02	5
150-0717	17	193-0318	14	320-1139	19	503-1564	5
150-0723	17	193-0319	20	320-1140	19	504-0028	8
150-1445	17	193-0320	20	320-1553-02	19	504-0092	14
150-1446	17	193-0351	19	323-1199	20	505-0011	14
150-2211	6	193-0352	19	323-1200	19	505-0017	5
150-2212	6	201-2152	17	323-1200	20	505-0017	14
151-0440	6	201-3398-02	17	323-1291	20	505-0021	5
154-0133	5	205-0132	17	323-1325	19	505-0039	14
154-2712	15	211-0349	17	323-1325	20	505-0060	5
155-1599	15	220-2010	17	332-0941	19	505-0085	5
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166-0715	13	234-0498	17	338-1675-05	19	505-0210	5
166-0716	13	300-2604	19	338-1675-07	19	505-0763	14
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166-0758	14	301-7699	19	338-2184	19	508-1043	19
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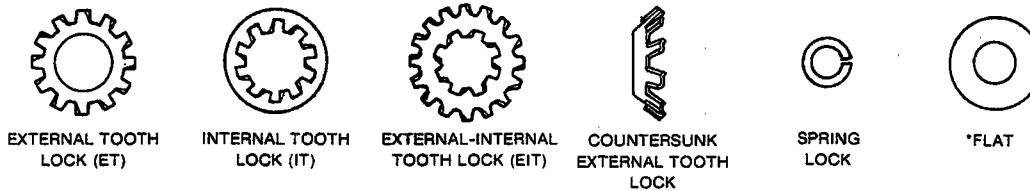
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526-0032	11	821-0014	19	870-0281	10		
526-0049	19	821-0018	8	870-0284	17		
526-0077	17	821-0028	8	870-0398	19		
526-0195	7	821-0029	10	871-0010	19		
526-0198	7	850-0040	17	871-0016	19		
526-0249	17	850-0045	5				
718-1002	11	850-0045	7				
718-1019	17	850-0045	8				
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HARDWARE IDENTIFICATION

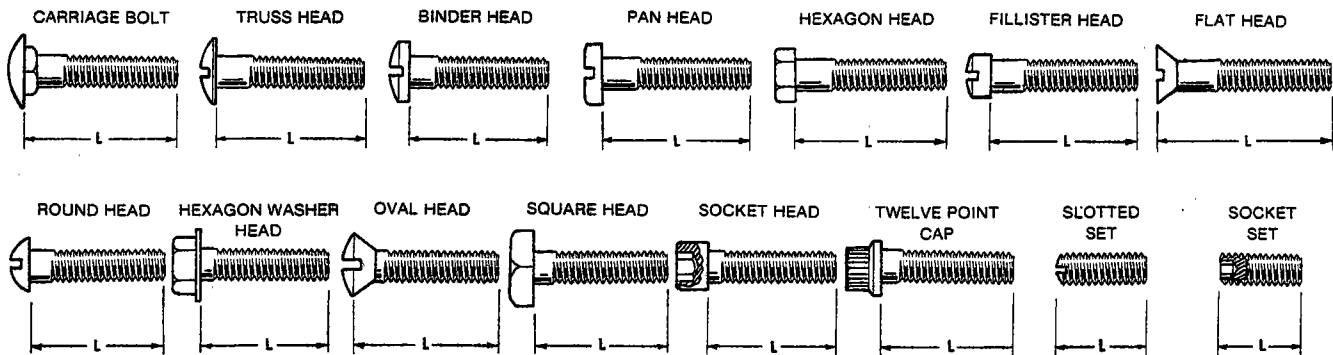
Illustrated hardware items are only for identification purposes. All hardware items listed throughout this parts catalog are steel SAE grade five (5) or lower (zinc plated with clear chromate dip) unless parts description indicates differently. All dimensions are in inches.

WASHER TYPES



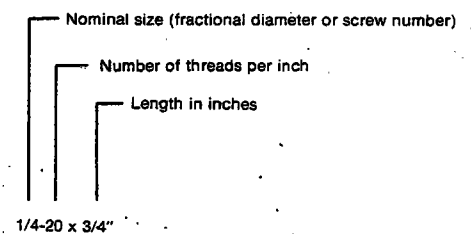
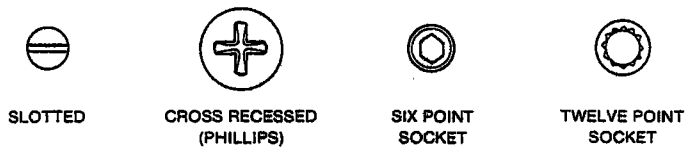
* - Flat washer dimensions given are: Inside Diameter (ID), Outside Diameter (OD) and Thickness (Thk).

BOLT AND SCREW TYPES



L - Measure length between these points.

INTERNAL DRIVE TYPES



NUT TYPES





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